Country Manager and will employ engineers for providing support, marketing professionals and administrative personnel. It will endeavour to earn commissions from new product sales and revenues from support services which will be sufficient to meet its expenses and generate profits to the Company. The operational plan of the company would include providing hardware and software support to the Company's clients in India. The Indian subsidiary will also be doing marketing related activities which willl include prospecting, tendering, making presentations, and similar activities in order to sell Cray Research's products and services.

(c) and (d) The Government approved the proposal taking into account the requirement of hi-tech equipment at competitive levels, as also the views of different interest groups involved.

संचार उपग्रह में खराबी

1082. **श्री राघवजी:** क्या **प्रधान मंत्री** यह बताने की कृपा करेंगे कि :

(क) क्या यह सच है कि संचार उपग्रह में खराबी आ गई है; यदि हां, तो इसमें क्या खराबी आई है और किस सीमा तक उस खराबी को दूर किया जा सकता है;

(ख) इस खराबी के क्या कारण हैं; और

(ग) उपरोक्त खराबी का संचार सेवाओं पर क्या प्रभाव पड़ा है और उसे दूर करने के लिए क्या कदम उठाये गए हैं और इसे कब तक ठीक कर दिया जाएगा?

विज्ञान और प्रौद्योगिकी मंत्रालय के राज्य मंत्री और विद्युत मंत्रालय के राज्य मंत्री (श्री योगेन्द्र के० अलघ): (क) जी, हां। इन्सैट-2डी उपग्रह में अक्तूबर 1, 1997 को एक विसंगति पैदा हो गई थी तथा अक्तूबर 5, 1997 को इसे निष्क्रिय घोषित कर दिया गया। इस विसंगति को दूर नहीं किया जा सकता था।

(ख) इस विसंगति के होने का अधिक संभावित कारण पावर बस में शार्ट-सर्किट का होना था।

(ग) इन्सैट-2डी की विफलता से इन्सैट अन्तरिक्ष खण्ड में 23 प्रेषानुकर कम हो गए हैं। अन्तरिक्ष खण्ड क्षमता में यह महत्वपूर्ण क्षति है तथा इन्सैट क्षमता के तुरन्त संवर्धन के लिए प्रयास किए जा रहे हैं।

Failure of INSAT-2D

1083. SHRI SANJAY NIRUPAM: Will the PRIME MINISTER be pleased to state:

(a) whether the recent failure of INSAT-2D was due to short circuit in the power bus;

(b) if so, the details of the vendor, who supplied the power bus and if not, what was the reason therefor;

(c) whether any failure analysis has been carried out;

(d) if so, the details thereof; and

(e) what other steps are being taken to prevent such failures?

THE MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY AND THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI YOGINDER K. ALAGH): (a) and (b) Yes, Sir. A short circuit in one of the two power bus lines is the most probable cause that led to the eventual failure of INSAT-2D. The power system of INSAT-2D was designed and built by Indian Space Research Organisation (ISRO). The various subsystems had been fabricated by the different Centres and Units of ISRO.

(c) and (d) Several technical committees have been set up to carryout detailed analysis of the failure. A senior level Committee with technical experts drawn from several academic and R&D institutions has also been set up. The Committee is expected to complete its task by January, 1998.

(e) A detailed component level and circuit level view of the power system is being carried out. If any deficiencies come to light, appropriate modifications will be carried out in the future satellites. Further, the mechanisms for process control during fabrication and also the quality audit are being strengthened.